Title (en)

Machine tool and method for removing a workpiece part

Title (de)

Verfahren zum Entnehmen eines Werkstückteils und Werkzeugmaschine

Title (fr)

Procédé d'extraction d'une partie d'une pièce à usiner et machine-outil

Publication

EP 2177293 B1 20130102 (DE)

Application

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Priority

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Abstract (en)

[origin: EP2177293A1] The method for removing a workpiece part (15), which is formed by separately processing a plate-like workpiece lying on a workpiece support (5) of a tool machine, from a remaining workpiece (14), comprises lifting the workpiece part on its lower side by a heightadjustable support element (13) for moving an edge region (19) of the workpiece part into a removal position above the remaining workpiece, and positioning the workpiece part on the support element in a preceding step by displacing the workpiece support and/or workpiece part jointly with the remaining workpiece on the support. The method for removing a workpiece part (15), which is formed by separately processing a plate-like workpiece lying on a workpiece support (5) of a tool machine, from a remaining workpiece (14), comprises lifting the workpiece part on its lower side by a height-adjustable support element (13) for moving an edge region (19) of the workpiece part into a removal position above the remaining workpiece, and positioning the workpiece part on the support element in a preceding step by displacing the workpiece support and/or the workpiece part jointly with the remaining workpiece on the workpiece support. The support element is formed in an operating position of the workpiece support, and is formed by a punch matrix or a laser matrix of the tool machine. The lifting of the workpiece part takes place in the removal position selectively with a linear movement or a tilting movement. Connection paths, one of which is broken during lifting the workpiece part, remain between the workpiece part and the remaining workpiece during the separate processing. The workpiece part is tilted around a tilting axis during lifting. The tilting axis passes along the connection paths remaining between the workpiece part and the remaining workpiece part is held on the support element by a suction device or a punching head provided at the operating position. The workpiece part is removed at the removal position using the suction device or

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CPC (source: EP)

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